

D1 15. (once amended) A method for screening for a bioactive agent capable of binding to the cell cycle protein R0101, comprising:

a) combining said cell cycle protein R0101 and a candidate bioactive agent; and

b) determining the binding of said candidate bioactive agent to said cell cycle protein R0101; wherein said cell cycle protein R0101 comprises an amino acid sequence having at least about 95% identity to the amino acid sequence set forth in SEQ ID NO:2 and wherein said cell cycle protein R0101 binds to proliferating cell nuclear antigen (PCNA).

16. (once amended) A method according to Claim 15, wherein said cell cycle protein R0101 comprises the amino acid sequence set forth in SEQ ID NO:2.

Sub E1 17. (once amended) A method according to Claim 15, wherein a library of candidate bioactive agents is added to a plurality of cells comprising a recombinant nucleic acid encoding said R0101 protein.

D2 Sub E2 20. (once amended) A method according to Claim 15, further comprising determining the activity of said R0101 protein in the presence of said candidate bioactive agent.

D3 21. (new) A method according to Claim 15, wherein step a) further comprises combining PCNA with said cell cycle protein R0101 and the candidate bioactive agent.

REMARKS

With this amendment, claims 15-17 and 20-21 are pending in the present application. Appendix A provides the "Version with Markings to Show Changes Made." Appendix B provides the pending claims for the Examiner's convenience.